



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Ranjan RAY et al.

Serial No.: 10/624,497

Filed: July 23, 2003

For: CASTINGS OF METALLIC ALLOYS WITH IMPROVED SURFACE QUALITY, STRUCTURAL INTEGRITY AND MECHANICAL IN REFRactory METALS AND REFRactory METAL CARBIDES COATED GRAPHITE MOLDS UNDER VACUUM

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

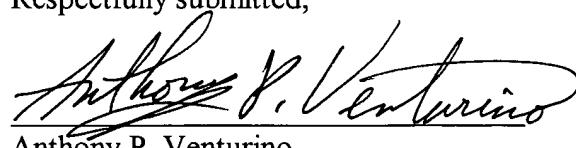
Pursuant to Rules 56 and 98, Applicants hereby call the attention of the Patent Office to the references listed on the attached Form PTO 1449.

Applicants present these references so that the Patent Office may, in the first instance, determine any relevancy thereof to the presently claimed invention, see Beckman Instruments, Inc. v. Chemtronics, Inc., 439 F.2d 1369, 1380, 165 USPQ 355, 364 (5th Cir. 1970). Also see Patent Office Rule 104. Applicants respectfully request that these references be expressly considered during the prosecution of this application and made of record herein and appear among the "References Cited" on any patent to issue herefrom.

Respectfully submitted,

Date: Aug. 25, 2004

By:

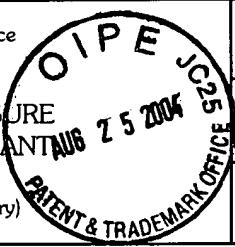

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FORM PTO-1449 U.S. Department of Commerce
(Rev. 4/92) Patent and Trademark OfficeATTY. DOCKET NO.
APV31642SERIAL NO.
10/624,497INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

(Use several sheets if necessary)

APPLICANT
Ranjan RAY et al.FILING DATE
July 23, 2003

GROUP

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	2	9	7	7	2	2	2					
	2	9	7	7	2	2	2	03/61	Bieber			
	3	2	4	1	2	0	0	03/66	Lirones			
	3	2	4	3	7	3	3	03/66	Hosman			
	3	2	6	5	5	7	4	08/66	Scolari			
	3	2	6	6	1	0	6	08/66	Lirones			
	3	2	9	6	6	6	6	01/67	Lirones			
	3	2	5	7	6	9	2	06/66	Operhall			
	3	3	2	1	0	0	5	05/67	Lirones			
	3	3	8	9	7	4	3	06/68	Morozov et al.			
	3	4	8	5	2	8	8	12/69	Zusman et al.			
	3	5	1	9	5	0	3	07/70	Moore et al.			
	3	5	4	7	6	7	6	12/70	Bokros et al.			
	3	9	0	0	5	4	0	08/75	Robba et al.			
	4	2	0	9	3	4	8	06/80	Duhl et al.			
	4	2	2	6	9	0	0	10/80	Carlson et al.			
	4	4	5	3	9	8	5	06/84	Gessinger et al.			
	4	5	7	4	0	1	5	03/86	Genereux et al.			
	4	5	7	9	6	0	2	01/86	Paulonis et al.			
	4	6	0	8	1	9	2	08/86	Su			
	4	6	1	2	0	6	2	09/86	Nazmy et al.			
	4	6	2	7	9	4	5	12/86	Winkelbauer et al.			
	4	7	1	9	0	8	0	01/88	Duhl et al.			
	4	7	6	9	0	8	7	09/88	Genereux et al.			
	5	5	2	5	2	7	6	06/96	Okuyama et al.			
	5	6	3	0	4	6	5	05/97	Feagin			
	5	7	0	5	1	3	9	01/98	Stiller et al.			

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. (Form PTO-1449 (6.4))

FORM PTO-1449 U.S. Department of Commerce (Rev. 4/92) Patent and Trademark Office		ATTY. DOCKET NO. APV31642	SERIAL NO. 10/624,497
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICANT Ranjan RAY et al.	
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U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
													YES	NO
	6	0	0	4	0	6	4	4	03/85	JP			Abstract Only	
	5	5	1	4	9	7	4	7	11/80	JP			Abstract Only	
		1	3	0	6	6	4	1	04/87	SU				X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

US Published Patent Application No. 2004/0003913 A1, (Ser. No. 10/143,920), Ray et al., filed May 14, 2002, published January 8, 2004.

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								APPLICANT Ranjan RAY et al.							
								FILING DATE July 23, 2003				GROUP			

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5	1	6	3	4	9	8					
	5	1	6	3	4	9	8	11/92	Kantner et al.			
	3	6	8	3	9	9	6	08/72	Dunlop			
	3	5	6	7	8	9	6	03/71	Chang			
	4	0	0	5	1	6	3	01/77	Bokros			
	4	7	6	1	2	7	2	08/88	Hucke			
	5	9	2	4	4	7	0	07/99	Costilla-Vela et al.			
	5	9	6	4	0	9	1	10/99	Fukui et al.			
	4	1	2	9	4	6	2	12/78	Korenko			
	5	1	7	6	7	6	2	01/93	Berczik			
	5	4	8	9	4	1	1	02/96	Jha et al.			
	5	0	2	6	5	2	1	06/91	Kajimura et al.			
	5	6	6	5	2	6	2	09/97	Hajaligol et al.			
	5	2	2	6	9	4	6	07/93	Diehm et al.			
	4	6	7	0	2	0	1	06/87	Montgomery et al.			
	4	2	2	6	9	0	0	10/80	Carlson et al.			
	3	7	1	8	7	2	0	02/73	Lambdin, Jr. et al.			
	3	7	8	1	1	5	8	12/73	Leghorn			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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